Thermistor Strings

Measure more, deploy longer, download faster

The RBR*concerto* multi-channel logger supports thermistor strings, offers flexible measurement schedules, sampling intervals as short as 3s, large memory, averaging, ample power for extended deployments and fast USB download for large data sets. The RBR*concerto* T12 has the capacity for up to 12 thermistor nodes and the RBR*concerto* T24 has the capacity for up to 24 thermistor nodes that can be configured to meet your measurement needs.

Features

- 30M readings
- Up to 24 thermistors
- Long deployments
- Up to 150m in length
- Fast USB download



The RBR*concerto* T12, and RBR*concerto* T24 are two multichannel temperature data recorders designed to operate with arrays of thermistors. The RBR*concerto* can include up to two twelve-channel modules, and any combination of thermistors (up to 24) can be readily made. Other sensor channels may be added to the RBR*concerto* T12 and RBR*concerto* T24. The thermistor arrays are made to order, and may be any practical length*. Designed for marine or freshwater applications; underground, in concrete, in permafrost or in ice. The thermistor array may be used at depths up to 4,000m. The thermistor strings are calibrated to ±0.005°C against ITS-90 primary standards.

RBR*concerto* loggers make it easy to configure the optimum sampling regime for your measurements. The large data storage capacity, and fast download ability facilitate long deployments with higher sampling rates. The RBR*concerto* is also available in an extended body that has more battery power for longer deployments or to support additional sensor configurations. For deep water applications the RBR*concerto* is available in a titanium housing. Almost any sensor from RBR can be interfaced to the RBR*concerto*. Dataset export to Matlab®, Excel®, OceanDataView®, or text files facilitate post processing with external algorithms.



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Specifications

Physical

Power:	8 or 16 3V CR123A cells
Communication:	True USB or RS-232/485
Storage:	~30M readings
Clock accuracy:	±60 seconds/year
Depth Rating:	Up to 4000m - sensor dependent
Size:	~260 or 395mm x Ø63.5mm
Weight:	Configuration dependent
Sampling period:	3s to 24h
Averaging:	3s to 24h
Optional:	
Fast sampling:	Up to 6Hz
Fast averaging:	Up to 6Hz

Temperature

Range:	-5°C to 35°C
Accuracy:	±0.005°C
Resolution:	<0.00005°C
Time Constant:	~30s (standard), ~3s (fast)
Drift:	~0.002°C/year - typical

*Please contact RBR regarding availability of thermistor strings in excess of 150m



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